

FOR INFORMATION ONLY-SUBJECT TO CHANGE *
DRAFT Rev. F (1/16/02) – Comments Welcome
STS and ISS Document Deliverables for EXPRESS Pallet Payloads
GSFC OES/OSS RPO



Line #	Deliverable	Reference Document	Due Date
1	Mission Evaluation Request (MER) Form	SSP 50200	L-36 or ASAP
2	Payload Phase 0/1 Flight Safety Data Packages	NSTS 1700.7 NSTS 1700.7 ISS Addendum NSTS 13830	PDR + 45 days (with Phase 0/1 review typically held 45 days after submittal)
3	Payload Phase 2 Flight Safety Data Packages	NSTS 1700.7 NSTS 1700.7 ISS Addendum NSTS 13830	CDR + 45 days (with Phase 2 review typically held 45 days after submittal)
4	Payload Phase 3 Flight Safety Data Packages	NSTS 1700.7 NSTS 1700.7 ISS Addendum NSTS 13830	L-12.5 months (with integrated ExP Flight Phase 3 review typically held at L-8 months)
5	Payload Phase 0/1 Ground Safety Data Packages	KHB 1700.7	PDR + 45 days (with Phase 0/1 review typically held 45 days after submittal)
6	Payload Phase 2 Ground Safety Data Packages	KHB 1700.7	CDR + 45 days (with Phase 2 review typically held 45 days after submittal)
7	Payload Phase 3 Ground Safety Data Packages	KHB 1700.7	L-11.5 months (with integrated ExP Ground Phase 3 review typically held at L-7 months)
8	Payload Integration Agreements (PIA) and Payload Integration Agreement Increment Addenda	SSP 57061 SSP 57062	L-24
9a	Payload Configuration Data Set	SSP 52000-PDS	Initial Input at L-25 Final Updates at L-19
9b	Payload Command and Data Handling Data Set	SSP 52000-PDS	Initial Input at L-24 Final Updates at L-10
9c	Payload Training Data Set	SSP 52000-PDS	Initial Input at L-22 Updates As Required
9d	Ground Services Data Set	SSP 52000-PDS	Initial Input at L-22 Updates As Required
9e	Payload Operations Data Set	SSP 52000-PDS	Initial Input at L-22 Updates As Required
9f	Payload Planning Data Set	SSP 52000-PDS	Initial Input at L-22 Updates As Required

Documents also shown on Schedule. Export Control Plan has been estimated as being required at PDR.

* Users should refer to the latest official release of the ISS Program documentation, specifically: SSP 50431 (Space Station Program Requirements for Payloads), SSP 52000-EIA-EPP (EXPRESS Integration Agreement (EIA) for EXPRESS Pallet Payloads (EPP)), SSP52000-PAH-EPP (ISS Payload Accommodations Handbook for EXPRESS Pallet Payloads) and SSP52027 (ISS Payload Integration Template)

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Line #	Deliverable	Reference Document	Due Date
9g	KSC Technical Data Set	SSP 52000-PDS	Initial Input at L-16 Updates As Required
9h	KSC Support Data Set	SSP 52000-PDS	Initial Input at L-16 Updates As Required
9i	EVA Data Set	SSP 52000-PDS	Initial Input at L-22 Updates As Required
9j	EVR Data Set	SSP 52000-PDS	Initial Input at L-22 Updates As Required
10	Export Control Plan	SSP 50223 SSP 50431	TBD
11	Preflight Imagery Matrix	SSP 50486	Plan due at PDR
12a	Launch Package Assessment inputs	SSP 52054	L-3
12b	CoFR (Certification of Flight Readiness) inputs to SORR	SSP 52054	L-1.5
13	Software Quality Assurance Plan (Applicable only to ISS Interfaces)	SSP 50431	CDR
14	Payload Hardware to ExP Interface Control Document (ICD)	SSP 52000-IDD-EPP	L-24
15	ExP Payload Verification Plan	SSP 52000-PVP-EPP	L-24
16	ExP Verification Data	SSP 52000-PAH-EPP, Appendix. C	L-22.5 through L-6 See details of deliverables and schedule in reference doc.
17	Payload EMI/EMC (Electromagnetic Interference/Electromagnetic Compatibility) Plan/Report (if applicable)	SSP 30237 SSP 30238 SSP 30243 SSP 52000-IDD-EPP	Preliminary Report at L-14 Final Report updates due to MSFC/EI at L-12, L-10 and L-6
18	Payload Structural Verification Plan/Report	NSTS 1700.7 and ISS Addendum NSTS 18798 SSP 52005	Plan due at L-27 Final Report due to MSFC/EI at L-6
19	Failure Modes and Analysis	SSP 30234	PDR
20	Payload Fracture Control Plan/Report	NSTS 1700.7 and ISS Addendum NSTS 13830 NSTS 18798 NASA-STD-5003 SSP 52005	Plan due at L-22.5 Final Report due to MSFC/EI at L-13

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Line #	Deliverable	Reference Document	Due Date
21	Payload Mechanisms Plan/Report (if applicable)	NSTS 1700.7 and ISS Addendum NSTS 18798	With associated FSDP
22	Payload Training Plan	SSP 58309	Refer to Unpressurized PIA
23	Payload Thermal Model/Report	SSP 52000-IDD-EPP SSP 52000-PVP-EPP	Preliminary Model at L-25 Preliminary Analysis at L-22 Final Report at L-14
24	Payload Contamination Control Plan	SSP 30426 SSP 57003 SSP 52000-IDD-EPP	PDR
25	Operational Accomplishment Report	TBD: Post Flight Reporting Guide	Completed Increment + 1 Month
26	Final Research Report	TBD: Post Flight Reporting Guide	Last Completed Mission Increment + 1 Year

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List of Reference Documents

KHB 1700.7 Space Shuttle Payload Ground Safety Handbook
NASA-STD-5003: Fracture Control Requirements for Payloads using the National Space Transportation System (NSTS)
NSTS 13830 Payload Safety Review and Data Submittal Requirements
NSTS 1700.7 Safety Policy and Requirements for Payloads Using the Space Transportation System
NSTS 1700.7 and ISS Addendum
NSTS 18798: Interpretations of ISS and STS Payload Safety Requirements
SSP 30234: Instructions for Preparation of Failure Modes and Effects Analysis and Critical Items List for Space Station
SSP 30237: Space Station Requirements for Electromagnetic Emission and Susceptibility Requirements
SSP 30238: Space Station Electromagnetic Techniques
SSP 30243: Space Station requirements for Electromagnetic Compatibility
SSP 50200: Station Program Implementation Plan (SPIP)
SSP 50223: International Space Station Export Control Plan
SSP 50431: Space Station Program Requirements for Payloads (applicable only to ISS interfaces)
SSP 50486: Preflight Imagery Requirements for NASA Provided ISS Government Furnished Equipment (NASA Payloads)
SSP 52000-EIA-EPP: EXPRESS Integration Agreement (EIA) Blank Book for EXPRESS Pallet Payloads
SSP 52000-PAH-EPP: EXPRESS Pallet Payload Accommodations Handbook
SSP 52000-IDD-EPP: Express Pallet Interface Definition Document
SSP 52000-PDS: Payload Data Sets Blank Book
SSP 52000-PIA-UPP: PIA Blank Book for Unpressurized Payloads (Full truss site P/L)
SSP 52000-PVP-EPP: Generic Payload Verification Plan of EXPRESS Pallet Payloads
SSP 52005: ISS Payload Flight Equipment and Guidelines for Safety Critical Structures
SSP 52054: ISS Payloads Certification of Flight Readiness Implementation Plan
TBD Doc. on Payload preflight imagery planning, acquisition and submit
Payload Integration Agreement (PIA) Data Sets:
 1. Payload Configuration
 2. Payload Command and Data Handling Requirements
 3. Payload Training Requirements
 4. Ground Services Requirements
 5. Payload Operations Requirements
 6. Payload Planning Requirements
 7. KSC Technical Requirements
 8. KSC Support Requirements
 9. Extravehicular Activity Requirements
 10. Extravehicular Robotics Requirements

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